Global Leader in Fire & EMS

ZOLL

Solutions for EMS and Health-Y Information Exchange (HIE)
Rene' Nelson- Product Manager Data Extracts

Who is ZOLL?

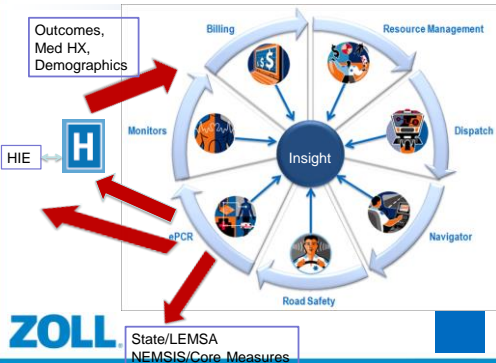- Life-saving devices and data solutions for Fire, EMS, and Hospitals.

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Chain of Survival

EARLY INTERVENTION   ACCESS   CPR   DEFIBRILLATION   ACLS   POST RESUS CARE

DATA MANAGEMENT ANALYSIS

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Greater ZOLL World of Solutions

Wearable Resuscitation	Automated Resuscitation	Professional Defibrillation	Temperature Management	Fire & EMS Data Management Suite
LifeVest	AutoPulse & AED Plus	X-Series	Thermoguard	RescueNet

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Fire and EMS Data Products

Outcomes, Med HX, Demographics

HIE

H

Billing — Resource Management

Monitors

Insight

Dispatch

ePCR

Navigator

Road Safety

State/LEMSA NEMSIS/Core Measures
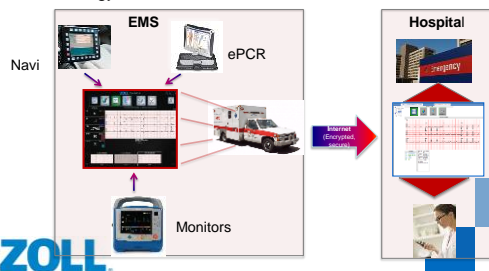
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Data Sharing- Real Time vs. Post Event

- Real-time Goals
  - Patient management/share clinical data
    - Relay of patient/ETA data from EMS to clinicians
    - Medical direction
    - Help prepare facility for inbound patient
- Post EMS event Goals
  - Completed EMS patient care report
    - Part of the continuity of care documentation
    - A complete record of the entire event
      - 911 call to hospital discharge
    - Meet JCAHO/Specialty Center documentation requirements
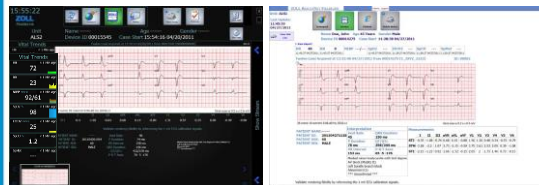   - EMS Records must be included in the medical record

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RescueNet Link

RescueNet Link collects relevant data and distributes it automatically allowing the Medic to serve the patient and not the technology

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Rapid & Immediate Data Sharing

Ambulance – MobileLink™
Ruggedized In-Vehicle Computer
Dedicated display

Hospital – FieldLink™
Internet Connection & Web Browser
No dedicated hardware or software!
No IT overhead required!

Live Implementations
Fort Smith EMS, AR
Dorchester County EMS, SC
Wilton EMS, NY

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Electronic - End of EMS Event data sharing

- Why is it important?
  - Handoff of EMS record to hospital
  - Completed record for entire patient event
    - Complete picture of patient event 911-
  - Medical records (JHACO requirement)
  - Replace faxing and manual scan/attach to MR
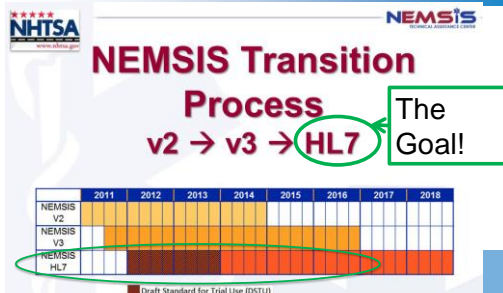 - Trauma and other registries use EMS data
  - What happened to my patient?

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Data Sharing Challenges (past)

- Why don't we have EMS and Hospital data exchange on a wide spread basis already?
- Not really a technology problem
- No Common Language
  - EMS – NEMSIS
  - Healthcare- HL7
- HL7 - Large healthcare audience, but little EMS representation
- EMR vendor custom implementations
  - Burger King…..Have it your way
  - No standard means expensive custom interfaces

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NEMSIS V3 Transition

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NEMSIS to HL7 for EMS

- 2009 - NEMSIS Begins HL7 NEMSIS V3 to HL7 Modeling and Balloting Process
- 2012 - CDA for EMS standard final and ready for trial use
- ZOLL develops and tests EMS CDA
- June 2013 – 1st successful Implementation
  - Patient care report from ZOLL ePCR Into EPIC EHR
- Sept 2013 – Trial Use Period Final/Approval for EMS CDA
  - Ballot Reconciliation
- Now- Final Stages of ANSI adoption

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Benefits of HL7 for EMS Standards

- Based on NEMSIS!
  - You are already collecting NEMSIS Data
- EMS and Healthcare speaking the SAME language….FINALLY!
- A standard that can be used across the industry. Based on EMS concepts
- Vendor neutral
  - EMS and EHR vendors

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What is the ZOLL HL7 Solution?

- ZOLL HL7 solution bridges the data gap between EMS and Hospitals
- Automated and secure
- Consumable XML CDA
- Will expand with the Standard
  - Now 150 clinical data elements
- 2014 balloting of remaining NEMSIS V3 data elements
  - Approximately 550 data elements possible
  - INCLUDES OUTCOMES
  - All Demographic Info

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ZOLL - HL7 Implementation Options

- A PDF of the PCR (level 1)
  - Wrapped in HL7 wrapper
- Individual data points (level 3)
  - Can be used to populate individual fields in the EMR (i.e. Trauma Registry)
  - Standard consumable XML file with all discrete data points
- Can be sent multiple times
  - i.e. 1st PCR Completed, 2nd After QA
- Multiple hospitals/HIE's
  - Do you transport to more than one hospital?
    - Configure to send to any hospital that can consume the CDA

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ZOLL HL7 Solution is LIVE!

- Poudre Valley/University Health Live with ZOLL HL7 Solution
  - July 2013
  - Fully automated
  - Delivery of HL7 Patient Care Report
  - Eliminated manual data entry process
  - Expanded billing capabilities by 20% without adding manpower
  - Saving time
  - Increased accuracy
- ePCR data to EPIC electronic health records system
  - ePCR record viewable within EPIC patient encounter record

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HL7 for EMS-Now We're Talkin'

- Up next…More implementations
  - Large Implementation in Oklahoma
  - Planning for implementations in:
    - MA, NY, VA and CO
- Promote adoption of EMS CDA standard among EHR vendors
  - NEMSIS, HL7, Hospital Councils, etc.

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Visit ZOLL booth for Demonstrations!

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